

We claim:

1. A light guide plate, comprising:
a transparent plate having a light emitting surface, and a bottom surface opposite to the light emitting surface; and
a plurality of optical embossments arranged across on the light emitting surface.
2. The light guide plate as recited in claim 1, wherein the transparent plate is substantially a flat panel or is trapezoidal.
3. The light guide plate as recited in claim 1, wherein the transparent plate is made from polymethyl methacrylate (PMMA).
4. The light guide plate as recited in claim 1, wherein the optical embossments are made from polymethyl methacrylate (PMMA).
5. The light guide plate as recited in claim 1, wherein the optical embossments are integrally formed with the light guide plate.
6. The light guide plate as recited in claim 1, wherein each of the optical embossments is substantially hemispherical or partially hemispherical.
7. The light guide plate as recited in claim 1, wherein the optical embossments having uniform dimensions, and are evenly distributed on the emitting surface of the transparent plate.
8. The light guide plate as recited in claim 1, wherein the transparent plate further has a plurality of dots evenly distributed on the bottom surface.

9. The light guide plate as recited in claim 8, wherein the dots have uniform dimensions.

10. The light guide plate as recited in claim 9, wherein the dots are generally hemispherical, partially hemispherical, dome-shaped, frustum-shaped, or cylindrical.

11. The light guide plate as recited in claim 9, wherein the dots are hollow regions that are hemispherical, partially hemispherical, concave, frustum-shaped, or cylindrical.

12. The light guide plate as recited in claim 8, wherein a diameter of each of the dots is larger than a corresponding diameter or width of each of the optical embossments.

13. A backlight system, comprising

a light guide plate including a transparent plate having a light emitting surface, a bottom surface opposite to the light emitting surface, and a plurality of optical embossments evenly distributed on the light guide plate; and

a light source arranged at a side of the light guide plate.

14. The backlight system as recited in claim 13, wherein said embossments are applied upon the light emitting surface.

15. The backlight system as recited in claim 13, wherein said embossments are applied upon both the light emitting surface and the bottom surface.